

## EAST Search History

| Ref # | Hits   | Search Query                              | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| S10   | 33689  | (stem adj cell)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/11/26 12:54 |
| S11   | 64763  | (gene adj transfer) or (gene adj therapy) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:03 |
| S12   | 5683   | S10 same S11                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:03 |
| S13   | 247437 | heart or cardiac or myocardium            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:04 |
| S14   | 296    | S12 same S13                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:04 |
| S15   | 20     | S14 and pacemaker                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:04 |
| S16   | 5      | S14 same (ion adj channel)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:04 |
| S17   | 33689  | stem adj cell                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:25 |
| S19   | 64763  | (gene adj therapy) or (gene adj transfer) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:26 |
| S20   | 5683   | S17 same S19                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:26 |
| S21   | 8      | S20 same pacemaker                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:30 |
| S26   | 192    | S20 same heart                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND              | ON      | 2005/10/28 16:45 |

## EAST Search History

|     |         |                  |   |     |    |                  |
|-----|---------|------------------|---|-----|----|------------------|
| S29 | 3       | S20 and HCN2     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/10/28 16:45 |
| S30 | 12477   | ion adj channel  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:42 |
| S31 | 33969   | stem adj cell    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:22 |
| S32 | 3240843 | gene or compound | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:22 |
| S33 | 16887   | S31 same S32     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:22 |
| S34 | 46      | S30 same S33     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:25 |
| S35 | 207372  | heart            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:25 |
| S36 | 3       | S34 same S35     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:29 |
| S37 | 7832    | HCN or HCN2      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:29 |
| S38 | 39      | S35 same S37     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:29 |
| S39 | 91      | S30 same S31     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:29 |
| S40 | 2       | S38 and S39      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:30 |

## EAST Search History

|     |         |                                |   |     |    |                  |
|-----|---------|--------------------------------|---|-----|----|------------------|
| S41 | 710     | S33 same S35                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:30 |
| S42 | 16      | S41 and S37                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:33 |
| S43 | 11      | create adj ion adj channel     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 12:42 |
| S44 | 33969   | stem adj cell                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:19 |
| S45 | 3240843 | gene or compound               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:19 |
| S46 | 16887   | S44 same S45                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:19 |
| S47 | 11      | S46 same pacemaker             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:20 |
| S48 | 9193    | S46 same (construct or vector) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:21 |
| S49 | 10      | S48 same (ion adj channel)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:22 |
| S50 | 46      | S46 same (ion adj channel)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:25 |
| S51 | 10      | "6387369"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:56 |
| S52 | 715     | connexin                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:56 |

## EAST Search History

|     |       |   |   |     |    |                  |
|-----|-------|---|---|-----|----|------------------|
| S53 | 19    | S46 same S52                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:57 |
| S54 | 7867  | hcn2 or MiRp1 or Mink                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 14:29 |
| S55 | 56    | S44 same S54                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:59 |
| S56 | 1     | S55 same (ion adj channel)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 13:59 |
| S57 | 5     | S52 same S54                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 14:07 |
| S58 | 56    | S44 same S54                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 14:29 |
| S59 | 7     | S58 and (mesenchymal adj stem adj cell) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/16 14:32 |
| S60 | 9     | "6214620"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 10:41 |
| S62 | 5     | "20020022259"                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 11:18 |
| S63 | 2149  | 424/93.21                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 11:18 |
| S65 | 34038 | (stem adj cell)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 11:19 |
| S66 | 988   | S63 and S65                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 11:19 |

## EAST Search History

|     |         |   |   |     |    |                  |
|-----|---------|---|---|-----|----|------------------|
| S67 | 85      | S66 and (pacemaker or ion (w)channel)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/17 11:20 |
| S68 | 34116   | (stem adj cell)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:36 |
| S69 | 43      | S68 same gap adj junction               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:39 |
| S70 | 2973948 | current or ion adj channel or pacemaker | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:40 |
| S71 | 2207    | S68 same S70                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:40 |
| S72 | 2234    | gap adj junction or connexin            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:40 |
| S73 | 13      | S71 same S72                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:49 |
| S74 | 20      | "5130821"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 16:47 |
| S75 | 59      | S71 and S72                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 17:09 |
| S76 | 30      | biological adj pacemaker                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 17:09 |
| S77 | 12532   | ion adj channel                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 17:09 |
| S78 | 12      | S76 and S77                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/22 17:10 |

## EAST Search History

|     |        |   |   |     |    |                  |
|-----|--------|---|---|-----|----|------------------|
| S79 | 1476   | 424/93.1  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:54 |
| S80 | 34244  | (stem adj cell)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:54 |
| S81 | 446    | S79 and S80   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:56 |
| S82 | 65582  | (gene adj transfer) or (gene adj therapy)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:56 |
| S83 | 5761   | S80 same S82  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:56 |
| S84 | 250017 | heart or cardiac or myocardium  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:56 |
| S85 | 306    | S83 same S84  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:56 |
| S87 | 10     | S81 and S85   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2005/11/26 12:57 |
| S88 | 2      | mesenchymal same hcn2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/04/22 16:06 |
| S91 | 21     | pacemaker and hcn2 and cell.clm.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/04/22 16:07 |
| S92 | 7      | HCN2 and mesenchymal  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/05/11 10:44 |
| S93 | 78     | (hyperpolarization near2 activated near2 cyclic near2 nucleotide near2 gate\$3) or HCN2 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/05/12 10:49 |

## EAST Search History

|     |    |               |   |     |    |                  |
|-----|----|---------------|---|-----|----|------------------|
| S94 | 40 | S93 same cell | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | AND | ON | 2006/05/12 10:49 |
|-----|----|---------------|---|-----|----|------------------|

d hist

(FILE 'HOME' ENTERED AT 14:05:07 ON 12 MAY 2006)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 14:05:15 ON 12 MAY 2006

L1 8484 S MESENCHYMAL STEM CELL  
L2 609 S HCN2  
L3 18 S L1 AND L2  
L4 11 DUP REM L3 (7 DUPLICATES REMOVED)

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 14:07:07 ON 12 MAY 2006

L5 5075 S ROSEN M?/AU  
L6 23 S L1 AND L5  
L7 13 DUP REM L6 (10 DUPLICATES REMOVED)

=> end